aws

API Reference

Amazon OpenSearch Serverless

API Version 2021-11-01

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Amazon OpenSearch Serverless: API Reference

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Welcome

Use the Amazon OpenSearch Serverless API to create, configure, and manage OpenSearch Serverless collections and security policies.

OpenSearch Serverless is an on-demand, pre-provisioned serverless configuration for Amazon OpenSearch Service. OpenSearch Serverless removes the operational complexities of provisioning, configuring, and tuning your OpenSearch clusters. It enables you to easily search and analyze petabytes of data without having to worry about the underlying infrastructure and data management.

To learn more about OpenSearch Serverless, see What is Amazon OpenSearch Serverless?

This document was last published on October 14, 2026.

Actions

The following actions are supported:

- BatchGetCollection
- BatchGetCollectionGroup
- BatchGetEffectiveLifecyclePolicy
- BatchGetLifecyclePolicy
- BatchGetVpcEndpoint
- CreateAccessPolicy
- CreateCollection
- CreateCollectionGroup
- CreateIndex
- CreateLifecyclePolicy
- CreateSecurityConfig
- CreateSecurityPolicy
- CreateVpcEndpoint
- DeleteAccessPolicy
- DeleteCollection
- DeleteCollectionGroup
- DeleteIndex
- DeleteLifecyclePolicy
- DeleteSecurityConfig
- DeleteSecurityPolicy
- DeleteVpcEndpoint
- GetAccessPolicy
- GetAccountSettings
- GetIndex
- GetPoliciesStats
- GetSecurityConfig
- GetSecurityPolicy

- ListAccessPolicies
- ListCollectionGroups
- ListCollections
- ListLifecyclePolicies
- ListSecurityConfigs
- ListSecurityPolicies
- ListTagsForResource
- ListVpcEndpoints
- TagResource
- UntagResource
- UpdateAccessPolicy
- UpdateAccountSettings
- UpdateCollection
- UpdateCollectionGroup
- UpdateIndex
- UpdateLifecyclePolicy
- UpdateSecurityConfig
- UpdateSecurityPolicy
- UpdateVpcEndpoint

BatchGetCollection

Returns attributes for one or more collections, including the collection endpoint, the OpenSearch Dashboards endpoint, and FIPS-compliant endpoints. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "ids": [ "string" ],
   "names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ids

A list of collection IDs. You can't provide names and IDs in the same request. The ID is part of the collection endpoint. You can also retrieve it using the ListCollections API.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

names

A list of collection names. You can't provide names and IDs in the same request.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

Response Syntax

```
{
   "collectionDetails": [
      {
         "arn": "string",
         "collectionEndpoint": "string",
         "collectionGroupName": "string",
         "createdDate": number,
         "dashboardEndpoint": "string",
         "deletionProtection": "string",
         "description": "string",
         "failureCode": "string",
         "failureMessage": "string",
         "fipsEndpoints": {
            "collectionEndpoint": "string",
            "dashboardEndpoint": "string"
         },
         "id": "string",
         "kmsKeyArn": "string",
         "lastModifiedDate": number,
         "name": "string",
         "standbyReplicas": "string",
         "status": "string",
         "type": "string",
         "vectorOptions": {
            "ServerlessVectorAcceleration": "string"
         }
      }
   ],
   "collectionErrorDetails": [
      {
         "errorCode": "string",
         "errorMessage": "string",
         "id": "string",
         "name": "string"
      }
```

```
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collectionDetails

Details about each collection.

Type: Array of CollectionDetail objects

collectionErrorDetails

Error information for the request.

Type: Array of CollectionErrorDetail objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

Examples

Retrieve attributes from multiple collections

The following example requests attributes from two different collections.

Sample Request

```
POST / HTTP/1.1
Host: aoss.<region>.<domain>
Accept-Encoding: identity
Content-Length: <PayloadSizeBytes>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.0
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=<Headers>,
 Signature=<Signature>
X-Amz-Date: <Date>
X-Amz-Target: OpenSearchServerless.BatchGetCollection

{
  "ids": ["1iu5usc4adj5", "1iu5usc4rame"]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
x-amz-crc32: <Checksum>
Content-Type: application/x-amz-json-1.0
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
    "collectionDetails": [
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/07tjusf2h91cunochc",
            "collectionEndpoint": "https://07tjusf2h91cunochc.us-
east-1.aoss.amazonaws.com",
            "createdDate": 1655422947204,
            "lastModifiedDate": 1655422947204,
            "dashboardEndpoint": "https://07tjusf2h91cunochc.us-
east-1.aoss.amazonaws.com/_dashboards",
            "fipsEndpoints": {
                "collectionEndpoint": "https://07tjusf2h91cunochc.us-east-1.aoss-
fips.amazonaws.com",
                "dashboardEndpoint": "https://07tjusf2h91cunochc.us-east-1.aoss-
fips.amazonaws.com/_dashboards"
            },
            "kmsKeyArn": "arn:aws:kms:us-
east-1:123456789012:key/1234abcd-12ab-34cd-56ef-1234567890ab",
```

```
            "type": "TIMESERIES",
            "description": "Log data",
            "id": "07tjusf2h91cunochc",
            "name": "my-collection",
            "status": "ACTIVE"
        },
        {
            "id": "178ukvtg3i82dvopdid",
            "name": "another-collection",
            "status": "CREATING",
            "type": "TIMESERIES",
            "description": "",
            "arn": "arn:aws:aoss:us-
east-1:123456789012:collection/178ukvtg3i82dvopdid",
            "kmsKeyArn": "arn:aws:kms:us-
east-1:123456789012:key/1234abcd-12ab-34cd-56ef-1234567890ab",
            "createdDate": 1667446262828,
            "lastModifiedDate": 1667446300769,
            "collectionEndpoint": "https://178ukvtg3i82dvopdid.us-
east-1.aoss.amazonaws.com",
            "dashboardEndpoint": "https://178ukvtg3i82dvopdid.us-
east-1.aoss.amazonaws.com/_dashboards"
        }
    ],
    "collectionErrorDetails": []
}
```


See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

BatchGetCollectionGroup

Returns attributes for one or more collection groups, including capacity limits and the number of collections in each group. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "ids": [ "string" ],
   "names": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ids

A list of collection group IDs. You can't provide names and IDs in the same request.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

names

A list of collection group names. You can't provide names and IDs in the same request.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

Response Syntax

```
{
   "collectionGroupDetails": [
      {
         "arn": "string",
         "capacityLimits": {
            "maxIndexingCapacityInOCU": number,
            "maxSearchCapacityInOCU": number,
            "minIndexingCapacityInOCU": number,
            "minSearchCapacityInOCU": number
         },
         "createdDate": number,
         "currentCapacity": {
            "indexing": {
               "autoscalingStatus": "string",
               "capacityInOcu": number
            },
            "search": {
               "autoscalingStatus": "string",
               "capacityInOcu": number
            }
         },
         "description": "string",
         "generation": "string",
         "id": "string",
         "name": "string",
         "numberOfCollections": number,
         "standbyReplicas": "string",
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ]
      }
   ],
```

```
   "collectionGroupErrorDetails": [
      {
         "errorCode": "string",
         "errorMessage": "string",
         "id": "string",
         "name": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collectionGroupDetails

Details about each collection group.

Type: Array of CollectionGroupDetail objects

collectionGroupErrorDetails

Error information for the request.

Type: Array of CollectionGroupErrorDetail objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

BatchGetEffectiveLifecyclePolicy

Returns a list of successful and failed retrievals for the OpenSearch Serverless indexes. For more information, see Viewing data lifecycle policies.

Request Syntax

```
{
   "resourceIdentifiers": [
      {
         "resource": "string",
         "type": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceIdentifiers

The unique identifiers of policy types and resource names.

Type: Array of LifecyclePolicyResourceIdentifier objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

Response Syntax

```
{
   "effectiveLifecyclePolicyDetails": [
      {
         "noMinRetentionPeriod": boolean,
         "policyName": "string",
         "resource": "string",
```

```
            "resourceType": "string",
            "retentionPeriod": "string",
            "type": "string"
         }
      ],
      "effectiveLifecyclePolicyErrorDetails": [
         {
            "errorCode": "string",
            "errorMessage": "string",
            "resource": "string",
            "type": "string"
         }
      ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

effectiveLifecyclePolicyDetails

A list of lifecycle policies applied to the OpenSearch Serverless indexes.

Type: Array of EffectiveLifecyclePolicyDetail objects

effectiveLifecyclePolicyErrorDetails

A list of resources for which retrieval failed.

Type: Array of EffectiveLifecyclePolicyErrorDetail objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

BatchGetLifecyclePolicy

Returns one or more configured OpenSearch Serverless lifecycle policies. For more information, see Viewing data lifecycle policies.

Request Syntax

```
{
   "identifiers": [
      {
         "name": "string",
         "type": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

identifiers

The unique identifiers of policy types and policy names.

Type: Array of LifecyclePolicyIdentifier objects

Array Members: Minimum number of 1 item. Maximum number of 40 items.

Required: Yes

Response Syntax

```
{
   "lifecyclePolicyDetails": [
      {
         "createdDate": number,
         "description": "string",
         "lastModifiedDate": number,
```

```
            "name": "string",
            "policy": JSON value,
            "policyVersion": "string",
            "type": "string"
         }
      ],
      "lifecyclePolicyErrorDetails": [
         {
            "errorCode": "string",
            "errorMessage": "string",
            "name": "string",
            "type": "string"
         }
      ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

lifecyclePolicyDetails

A list of lifecycle policies matched to the input policy name and policy type.

Type: Array of LifecyclePolicyDetail objects

lifecyclePolicyErrorDetails

A list of lifecycle policy names and policy types for which retrieval failed.

Type: Array of LifecyclePolicyErrorDetail objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

BatchGetVpcEndpoint

Returns attributes for one or more VPC endpoints associated with the current account. For more information, see Access Amazon OpenSearch Serverless using an interface endpoint.

Request Syntax

```
{
   "ids": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

ids

A list of VPC endpoint identifiers.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: Yes

Response Syntax

```
{
   "vpcEndpointDetails": [
      {
         "createdDate": number,
         "failureCode": "string",
         "failureMessage": "string",
         "id": "string",
```

```
            "name": "string",
            "securityGroupIds": [ "string" ],
            "status": "string",
            "subnetIds": [ "string" ],
            "vpcId": "string"
         }
      ],
      "vpcEndpointErrorDetails": [
         {
            "errorCode": "string",
            "errorMessage": "string",
            "id": "string"
         }
      ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

vpcEndpointDetails

Details about the specified VPC endpoint.

Type: Array of VpcEndpointDetail objects

vpcEndpointErrorDetails

Error information for a failed request.

Type: Array of VpcEndpointErrorDetail objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateAccessPolicy

Creates a data access policy for OpenSearch Serverless. Access policies limit access to collections and the resources within them, and allow a user to access that data irrespective of the access mechanism or network source. For more information, see Data access control for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "policy": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the policy. Typically used to store information about the permissions defined in the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

policy

The JSON policy document to use as the content for the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: Yes

type

The type of policy.

Type: String

Valid Values: `data`

Required: Yes

Response Syntax

```
{
   "accessPolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
```

```
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessPolicyDetail

Details about the created access policy.

Type: AccessPolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateCollection

Creates a new OpenSearch Serverless collection. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "clientToken": "string",
   "collectionGroupName": "string",
   "deletionProtection": "string",
   "description": "string",
   "encryptionConfig": {
      "aWSOwnedKey": boolean,
      "kmsKeyArn": "string"
   },
   "name": "string",
   "standbyReplicas": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "type": "string",
   "vectorOptions": {
      "ServerlessVectorAcceleration": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

collectionGroupName

The name of the collection group to associate with the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

deletionProtection

Indicates whether to enable deletion protection for the collection. When set to `ENABLED`, the collection cannot be deleted.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

description

Description of the collection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

encryptionConfig

Encryption settings for the collection.

Type: EncryptionConfig object

Required: No

name

Name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

standbyReplicas

Indicates whether standby replicas should be used for a collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

tags

An arbitrary set of tags (key–value pairs) to associate with the OpenSearch Serverless collection.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

type

The type of collection.

Type: String

Valid Values: `SEARCH | TIMESERIES | VECTORSEARCH`

Required: No

vectorOptions

Configuration options for vector search capabilities in the collection.

Type: VectorOptions object

Required: No

Response Syntax

```
{
   "createCollectionDetail": {
      "arn": "string",
      "collectionGroupName": "string",
      "createdDate": number,
      "deletionProtection": "string",
      "description": "string",
      "id": "string",
      "kmsKeyArn": "string",
      "lastModifiedDate": number,
      "name": "string",
      "standbyReplicas": "string",
      "status": "string",
      "type": "string",
      "vectorOptions": {
         "ServerlessVectorAcceleration": "string"
      }
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createCollectionDetail

Details about the collection.

Type: CreateCollectionDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

OcuLimitExceededException

Thrown when the collection you're attempting to create results in a number of search or indexing OCUs that exceeds the account limit.

HTTP Status Code: 400

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

Examples

Create a collection

The following example creates a collection.

Sample Request

```
POST / HTTP/1.1
```

```
Host: aoss.<region>.<domain>
Accept-Encoding: identity
Content-Length: <PayloadSizeBytes>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.0
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=<Headers>,
 Signature=<Signature>
X-Amz-Date: <Date>
X-Amz-Target: OpenSearchServerless.CreateCollection

{
  "name": "my-collection-name",
  "description": "collection-description",
  "clientToken": "f576fe66-8dd5-11ec-b909-0242ac120004",
  "type": "SEARCH"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
x-amz-crc32: <Checksum>
Content-Type: application/x-amz-json-1.0
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
   "createCollectionDetail":{
      "arn":"arn:aws:aoss:us-east-1:123456789012:collection/07tjusf2h91cunochc",
      "createdDate":1637012666117,
      "description":"collection-description",
      "kmsKeyArn": "auto",
      "type": "SEARCH",
      "id":"07tjusf2h91cunochc",
      "name":"my-collection-name",
      "status":"CREATING"
   }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateCollectionGroup

Creates a collection group within OpenSearch Serverless. Collection groups let you manage OpenSearch Compute Units (OCUs) at a group level, with multiple collections sharing the group's capacity limits.

For more information, see Managing collection groups.

Request Syntax

```
{
   "capacityLimits": {
      "maxIndexingCapacityInOCU": number,
      "maxSearchCapacityInOCU": number,
      "minIndexingCapacityInOCU": number,
      "minSearchCapacityInOCU": number
   },
   "clientToken": "string",
   "description": "string",
   "generation": "string",
   "name": "string",
   "standbyReplicas": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

capacityLimits

The capacity limits for the collection group, in OpenSearch Compute Units (OCUs). These limits control the maximum and minimum capacity for collections within the group.

Type: CollectionGroupCapacityLimits object

Required: No

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the collection group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

generation

The generation of Amazon OpenSearch Serverless for the collection group. Valid values are `CLASSIC` and `NEXTGEN`.

Type: String

Valid Values: `CLASSIC | NEXTGEN`

Required: No

name

The name of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

standbyReplicas

Indicates whether standby replicas should be used for a collection group.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

tags

An arbitrary set of tags (key–value pairs) to associate with the OpenSearch Serverless collection group.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
{
   "createCollectionGroupDetail": {
      "arn": "string",
      "capacityLimits": {
         "maxIndexingCapacityInOCU": number,
         "maxSearchCapacityInOCU": number,
         "minIndexingCapacityInOCU": number,
         "minSearchCapacityInOCU": number
      },
      "createdDate": number,
      "description": "string",
      "generation": "string",
      "id": "string",
      "name": "string",
      "standbyReplicas": "string",
      "tags": [
         {
            "key": "string",
            "value": "string"
         }
```

```
        ]
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createCollectionGroupDetail

Details about the created collection group.

Type: CreateCollectionGroupDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateIndex

Creates an index within an OpenSearch Serverless collection. Unlike other OpenSearch indexes, indexes created by this API are automatically configured to conduct automatic semantic enrichment ingestion and search. For more information, see About automatic semantic enrichment in the *OpenSearch User Guide*.

Request Syntax

```
{
   "id": "string",
   "indexName": "string",
   "indexSchema": JSON value
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

id

The unique identifier of the collection in which to create the index.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

indexName

The name of the index to create. Index names must be lowercase and can't begin with underscores (_) or hyphens (-).

Type: String

Required: Yes

indexSchema

The JSON schema definition for the index, including field mappings and settings.

Type: JSON value

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateLifecyclePolicy

Creates a lifecyle policy to be applied to OpenSearch Serverless indexes. Lifecycle policies define the number of days or hours to retain the data on an OpenSearch Serverless index. For more information, see Creating data lifecycle policies.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "policy": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

name

The name of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

policy

The JSON policy document to use as the content for the lifecycle policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: Yes

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: Yes

Response Syntax

```
{
   "lifecyclePolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
      "policy": JSON value,
      "policyVersion": "string",
```

```
        "type": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

lifecyclePolicyDetail

Details about the created lifecycle policy.

Type: LifecyclePolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateSecurityConfig

Specifies a security configuration for OpenSearch Serverless. For more information, see SAML authentication for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "iamFederationOptions": {
      "groupAttribute": "string",
      "userAttribute": "string"
   },
   "iamIdentityCenterOptions": {
      "groupAttribute": "string",
      "instanceArn": "string",
      "userAttribute": "string"
   },
   "name": "string",
   "samlOptions": {
      "groupAttribute": "string",
      "metadata": "string",
      "openSearchServerlessEntityId": "string",
      "sessionTimeout": number,
      "userAttribute": "string"
   },
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

iamFederationOptions

Describes IAM federation options in the form of a key-value map. This field is required if you specify `iamFederation` for the `type` parameter.

Type: IamFederationConfigOptions object

Required: No

iamIdentityCenterOptions

Describes IAM Identity Center options in the form of a key-value map. This field is required if you specify `iamidentitycenter` for the `type` parameter.

Type: CreateIamIdentityCenterConfigOptions object

Required: No

name

The name of the security configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

samlOptions

Describes SAML options in the form of a key-value map. This field is required if you specify `SAML` for the `type` parameter.

Type: SamlConfigOptions object

Required: No

type

The type of security configuration.

Type: String

Valid Values: `saml | iamidentitycenter | iamfederation`

Required: Yes

Response Syntax

```
{
   "securityConfigDetail": {
      "configVersion": "string",
      "createdDate": number,
      "description": "string",
      "iamFederationOptions": {
         "groupAttribute": "string",
         "userAttribute": "string"
      },
      "iamIdentityCenterOptions": {
         "applicationArn": "string",
         "applicationDescription": "string",
         "applicationName": "string",
         "groupAttribute": "string",
         "instanceArn": "string",
         "userAttribute": "string"
      },
      "id": "string",
      "lastModifiedDate": number,
      "samlOptions": {
         "groupAttribute": "string",
         "metadata": "string",
         "openSearchServerlessEntityId": "string",
         "sessionTimeout": number,
         "userAttribute": "string"
      },
      "type": "string"
```

```
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

securityConfigDetail

Details about the created security configuration.

Type: SecurityConfigDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateSecurityPolicy

Creates a security policy to be used by one or more OpenSearch Serverless collections. Security policies provide access to a collection and its OpenSearch Dashboards endpoint from public networks or specific VPC endpoints. They also allow you to secure a collection with a KMS encryption key. For more information, see Network access for Amazon OpenSearch Serverless and Encryption at rest for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "policy": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the policy. Typically used to store information about the permissions defined in the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

policy

The JSON policy document to use as the content for the new policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: Yes

type

The type of security policy.

Type: String

Valid Values: `encryption | network`

Required: Yes

Response Syntax

```
{
   "securityPolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
```

```
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

securityPolicyDetail

Details about the created security policy.

Type: SecurityPolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateVpcEndpoint

Creates an OpenSearch Serverless-managed interface VPC endpoint. For more information, see Access Amazon OpenSearch Serverless using an interface endpoint.

Request Syntax

```
{
   "clientToken": "string",
   "name": "string",
   "securityGroupIds": [ "string" ],
   "subnetIds": [ "string" ],
   "vpcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

name

The name of the interface endpoint.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

securityGroupIds

The unique identifiers of the security groups that define the ports, protocols, and sources for inbound traffic that you are authorizing into your endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+\-]+`

Required: No

subnetIds

The ID of one or more subnets from which you'll access OpenSearch Serverless.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `subnet-([0-9a-f]{8}|[0-9a-f]{17})`

Required: Yes

vpcId

The ID of the VPC from which you'll access OpenSearch Serverless.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpc-[0-9a-z]*`

Required: Yes

Response Syntax

```
{
```

```
   "createVpcEndpointDetail": {
      "id": "string",
      "name": "string",
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createVpcEndpointDetail

Details about the created interface VPC endpoint.

Type: CreateVpcEndpointDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteAccessPolicy

Deletes an OpenSearch Serverless access policy. For more information, see Data access control for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "name": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

name

The name of the policy to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

type

The type of policy.

Type: String

Valid Values: `data`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteCollection

Deletes an OpenSearch Serverless collection. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "clientToken": "string",
   "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

id

The unique identifier of the collection. For example, `1iu5usc406kd`. The ID is part of the collection endpoint. You can also retrieve it using the ListCollections API.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

Response Syntax

```
{
   "deleteCollectionDetail": {
      "deletionProtection": "string",
      "id": "string",
      "name": "string",
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

deleteCollectionDetail

Details of the deleted collection.

Type: DeleteCollectionDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

Examples

Delete a collection

The following example deletes a collection.

Sample Request

```
POST / HTTP/1.1
Host: aoss.<region>.<domain>
Accept-Encoding: identity
Content-Length: <PayloadSizeBytes>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.0
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=<Headers>,
 Signature=<Signature>
X-Amz-Date: <Date>
X-Amz-Target: OpenSearchServerless.DeleteCollection

{
  "id": "07tjusf2h91cunochc",
  "clientToken": "f576fe66-8dd5-11ec-b909-0242ac120004"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
x-amz-crc32: <Checksum>
Content-Type: application/x-amz-json-1.0
```

```
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
   "deleteCollectionDetail":{
      "id":"07tjusf2h91cunochc",
      "name":"my-collection",
      "status":"DELETING"
   }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteCollectionGroup

Deletes a collection group. You can only delete empty collection groups that contain no collections. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "clientToken": "string",
   "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

id

The unique identifier of the collection group to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteIndex

Deletes an index from an OpenSearch Serverless collection. Be aware that the index might be configured to conduct automatic semantic enrichment ingestion and search. For more information, see About automatic semantic enrichment.

Request Syntax

```
{
   "id": "string",
   "indexName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

id

The unique identifier of the collection containing the index to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

indexName

The name of the index to delete.

Type: String

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteLifecyclePolicy

Deletes an OpenSearch Serverless lifecycle policy. For more information, see Deleting data lifecycle policies.

Request Syntax

```
{
   "clientToken": "string",
   "name": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

name

The name of the policy to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteSecurityConfig

Deletes a security configuration for OpenSearch Serverless. For more information, see SAML authentication for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

id

The security configuration identifier. For SAML the ID will be `saml/<accountId>/<idpProviderName>`. For example, `saml/123456789123/OKTADev`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteSecurityPolicy

Deletes an OpenSearch Serverless security policy.

Request Syntax

```
{
   "clientToken": "string",
   "name": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

name

The name of the policy to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

type

The type of policy.

Type: String

Valid Values: `encryption | network`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteVpcEndpoint

Deletes an OpenSearch Serverless-managed interface endpoint. For more information, see Access Amazon OpenSearch Serverless using an interface endpoint.

Request Syntax

```
{
   "clientToken": "string",
   "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

id

The VPC endpoint identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: Yes

Response Syntax

```
{
```

```
   "deleteVpcEndpointDetail": {
      "id": "string",
      "name": "string",
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

deleteVpcEndpointDetail

Details about the deleted endpoint.

Type: DeleteVpcEndpointDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetAccessPolicy

Returns an OpenSearch Serverless access policy. For more information, see Data access control for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "name": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

name

The name of the access policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

type

Tye type of policy. Currently, the only supported value is `data`.

Type: String

Valid Values: `data`

Required: Yes

Response Syntax

```
{
```

```
   "accessPolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessPolicyDetail

Details about the requested access policy.

Type: AccessPolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetAccountSettings

Returns account-level settings related to OpenSearch Serverless.

Response Syntax

```
{
   "accountSettingsDetail": {
      "capacityLimits": {
         "maxIndexingCapacityInOCU": number,
         "maxSearchCapacityInOCU": number
      }
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accountSettingsDetail

OpenSearch Serverless-related details for the current account.

Type: AccountSettingsDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetIndex

Retrieves information about an index in an OpenSearch Serverless collection, including its schema definition. The index might be configured to conduct automatic semantic enrichment ingestion and search. For more information, see About automatic semantic enrichment.

Request Syntax

```
{
   "id": "string",
   "indexName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

id

The unique identifier of the collection containing the index.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

indexName

The name of the index to retrieve information about.

Type: String

Required: Yes

Response Syntax

```
{
```

```
   "indexSchema": JSON value
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

indexSchema

The JSON schema definition for the index, including field mappings and settings.

Type: JSON value

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetPoliciesStats

Returns statistical information about your OpenSearch Serverless access policies, security configurations, and security policies.

Response Syntax

```
{
   "AccessPolicyStats": {
      "DataPolicyCount": number
   },
   "LifecyclePolicyStats": {
      "RetentionPolicyCount": number
   },
   "SecurityConfigStats": {
      "SamlConfigCount": number
   },
   "SecurityPolicyStats": {
      "EncryptionPolicyCount": number,
      "NetworkPolicyCount": number
   },
   "TotalPolicyCount": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AccessPolicyStats

Information about the data access policies in your account.

Type: AccessPolicyStats object

LifecyclePolicyStats

Information about the lifecycle policies in your account.

Type: LifecyclePolicyStats object

SecurityConfigStats

Information about the security configurations in your account.

Type: SecurityConfigStats object

SecurityPolicyStats

Information about the security policies in your account.

Type: SecurityPolicyStats object

TotalPolicyCount

The total number of OpenSearch Serverless security policies and configurations in your account.

Type: Long

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetSecurityConfig

Returns information about an OpenSearch Serverless security configuration. For more information, see SAML authentication for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

id

The unique identifier of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

Response Syntax

```
{
   "securityConfigDetail": {
      "configVersion": "string",
      "createdDate": number,
      "description": "string",
      "iamFederationOptions": {
         "groupAttribute": "string",
         "userAttribute": "string"
      },
      "iamIdentityCenterOptions": {
         "applicationArn": "string",
         "applicationDescription": "string",
```

```
         "applicationName": "string",
         "groupAttribute": "string",
         "instanceArn": "string",
         "userAttribute": "string"
      },
      "id": "string",
      "lastModifiedDate": number,
      "samlOptions": {
         "groupAttribute": "string",
         "metadata": "string",
         "openSearchServerlessEntityId": "string",
         "sessionTimeout": number,
         "userAttribute": "string"
      },
      "type": "string"
   }
}
```


Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

securityConfigDetail

Details of the requested security configuration.

Type: SecurityConfigDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetSecurityPolicy

Returns information about a configured OpenSearch Serverless security policy. For more information, see Network access for Amazon OpenSearch Serverless and Encryption at rest for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "name": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

name

The name of the security policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

type

The type of security policy.

Type: String

Valid Values: `encryption | network`

Required: Yes

Response Syntax

```
{
   "securityPolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

securityPolicyDetail

Details about the requested security policy.

Type: SecurityPolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListAccessPolicies

Returns information about a list of OpenSearch Serverless access policies.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "resource": [ "string" ],
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to get the next page of results. The default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListAccessPolicies` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListAccessPolicies` operations, which returns results in the next page.

Type: String

Required: No

resource

Resource filters (can be collections or indexes) that policies can apply to.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

type

The type of access policy.

Type: String

Valid Values: `data`

Required: Yes

Response Syntax

```
{
   "accessPolicySummaries": [
      {
         "createdDate": number,
         "description": "string",
         "lastModifiedDate": number,
         "name": "string",
         "policyVersion": "string",
         "type": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessPolicySummaries

Details about the requested access policies.

Type: Array of AccessPolicySummary objects

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- AWS SDK for Ruby V3

ListCollectionGroups

Returns a list of collection groups. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return. Default is 20. You can use `nextToken` to get the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListCollectionGroups` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListCollectionGroups` operations, which returns results in the next page.

Type: String

Required: No

Response Syntax

```
{
```

```
   "collectionGroupSummaries": [
      {
         "arn": "string",
         "capacityLimits": {
            "maxIndexingCapacityInOCU": number,
            "maxSearchCapacityInOCU": number,
            "minIndexingCapacityInOCU": number,
            "minSearchCapacityInOCU": number
         },
         "createdDate": number,
         "generation": "string",
         "id": "string",
         "name": "string",
         "numberOfCollections": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collectionGroupSummaries

Details about each collection group.

Type: Array of CollectionGroupSummary objects

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollections

Lists all OpenSearch Serverless collections. For more information, see Creating and managing Amazon OpenSearch Serverless collections.

> **Note**
>
> Make sure to include an empty request body {} if you don't include any collection filters in the request.

Request Syntax

```
{
   "collectionFilters": {
      "collectionGroupName": "string",
      "name": "string",
      "status": "string"
   },
   "maxResults": number,
   "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

collectionFilters

A list of filter names and values that you can use for requests.

Type: CollectionFilters object

Required: No

maxResults

The maximum number of results to return. Default is 20. You can use `nextToken` to get the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListCollections` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListCollections` operations, which returns results in the next page.

Type: String

Required: No

Response Syntax

```
{
   "collectionSummaries": [
      {
         "arn": "string",
         "collectionGroupName": "string",
         "id": "string",
         "kmsKeyArn": "string",
         "name": "string",
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collectionSummaries

Details about each collection.

Type: Array of CollectionSummary objects

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

Examples

Retrieve all collections

The following example lists all collections.

Sample Request

```
POST / HTTP/1.1
Host: aoss.<region>.<domain>
Accept-Encoding: identity
Content-Length: <PayloadSizeBytes>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.0
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=<Headers>,
 Signature=<Signature>
```

```
X-Amz-Date: <Date>
X-Amz-Target: OpenSearchServerless.ListCollections
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
x-amz-crc32: <Checksum>
Content-Type: application/x-amz-json-1.0
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
    "collectionSummaries": [
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/07tjusf2h91cunochc",
            "id": "07tjusf2h91cunochc",
            "name": "collection-1",
            "status": "ACTIVE"
        },
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/63hf8klid6904sfcvb",
            "id": "63hf8klid6904sfcvb",
            "name": "collection-2",
            "status": "FAILED"
        },
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/lo0p4fgjs6fbc87ads",
            "id": "lo0p4fgjs6fbc87ads",
            "name": "collection-3",
            "status": "ACTIVE"
        },
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/12hd79jbckl6dh4d89",
            "id": "12hd79jbckl6dh4d89",
            "name": "collection-4",
            "status": "DELETING"
        },
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/17dg8kiybd96dvnd8s",
            "id": "17dg8kiybd96dvnd8s",
            "name": "collection-5",
            "status": "CREATING"
```

```
        }
    ],
    "nextToken": "MWl1NXVzYzQ0b25q"
}
```

Retrieve a subset of collections

The following example lists collections with a status of `ACTIVE`.

Sample Request

```
POST / HTTP/1.1
Host: aoss.<region>.<domain>
Accept-Encoding: identity
Content-Length: <PayloadSizeBytes>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.0
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=<Headers>,
 Signature=<Signature>
X-Amz-Date: <Date>
X-Amz-Target: OpenSearchServerless.ListCollections
{
   "collectionFilters": {
      "status": "ACTIVE"
   }
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
x-amz-crc32: <Checksum>
Content-Type: application/x-amz-json-1.0
Content-Length: <PayloadSizeBytes>
Date: <Date>
{
    "collectionSummaries": [
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/07tjusf2h91cunochc",
            "id": "07tjusf2h91cunochc",
            "name": "collection-1",
            "status": "ACTIVE"
        },
```

```
        {
            "arn": "arn:aws:aoss:us-east-1:123456789012:collection/lo0p4fgjs6fbc87ads",
            "id": "lo0p4fgjs6fbc87ads",
            "name": "collection-3",
            "status": "ACTIVE"
        }
    ],
    "nextToken": "MWl1NXVzYzQ0b25q"
}
```


See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListLifecyclePolicies

Returns a list of OpenSearch Serverless lifecycle policies. For more information, see Viewing data lifecycle policies.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "resources": [ "string" ],
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use use `nextToken` to get the next page of results. The default is 10.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListLifecyclePolicies` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListLifecyclePolicies` operations, which returns results in the next page.

Type: String

Required: No

resources

Resource filters that policies can apply to. Currently, the only supported resource type is `index`.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: Yes

Response Syntax

```
{
   "lifecyclePolicySummaries": [
      {
         "createdDate": number,
         "description": "string",
         "lastModifiedDate": number,
         "name": "string",
         "policyVersion": "string",
         "type": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

lifecyclePolicySummaries

Details about the requested lifecycle policies.

Type: Array of LifecyclePolicySummary objects

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- AWS SDK for Ruby V3

ListSecurityConfigs

Returns information about configured OpenSearch Serverless security configurations. For more information, see SAML authentication for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to get the next page of results. The default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListSecurityConfigs` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListSecurityConfigs` operations, which returns results in the next page.

Type: String

Required: No

type

The type of security configuration.

Type: String

Valid Values: `saml | iamidentitycenter | iamfederation`

Required: Yes

Response Syntax

```
{
   "nextToken": "string",
   "securityConfigSummaries": [
      {
         "configVersion": "string",
         "createdDate": number,
         "description": "string",
         "id": "string",
         "lastModifiedDate": number,
         "type": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

securityConfigSummaries

Details about the security configurations in your account.

Type: Array of SecurityConfigSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListSecurityPolicies

Returns information about configured OpenSearch Serverless security policies.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "resource": [ "string" ],
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to get the next page of results. The default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListSecurityPolicies` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListSecurityPolicies` operations, which returns results in the next page.

Type: String

Required: No

resource

Resource filters (can be collection or indexes) that policies can apply to.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

type

The type of policy.

Type: String

Valid Values: `encryption | network`

Required: Yes

Response Syntax

```
{
   "nextToken": "string",
   "securityPolicySummaries": [
      {
         "createdDate": number,
         "description": "string",
         "lastModifiedDate": number,
         "name": "string",
         "policyVersion": "string",
         "type": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

securityPolicySummaries

Details about the security policies in your account.

Type: Array of SecurityPolicySummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListTagsForResource

Returns the tags for an OpenSearch Serverless resource. For more information, see Tagging Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "resourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource. The resource must be active (not in the DELETING state), and must be owned by the account ID included in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Response Syntax

```
{
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

The tags associated with the resource.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListVpcEndpoints

Returns the OpenSearch Serverless-managed interface VPC endpoints associated with the current account. For more information, see Access Amazon OpenSearch Serverless using an interface endpoint.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "vpcEndpointFilters": {
      "status": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to get the next page of results. The default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListVpcEndpoints` operation returns a `nextToken`, you can include the returned `nextToken` in subsequent `ListVpcEndpoints` operations, which returns results in the next page.

Type: String

Required: No

vpcEndpointFilters

Filter the results according to the current status of the VPC endpoint. Possible statuses are `CREATING`, `DELETING`, `UPDATING`, `ACTIVE`, and `FAILED`.

Type: VpcEndpointFilters object

Required: No

Response Syntax

```
{
   "nextToken": "string",
   "vpcEndpointSummaries": [
      {
         "id": "string",
         "name": "string",
         "status": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

vpcEndpointSummaries

Details about each VPC endpoint, including the name and current status.

Type: Array of VpcEndpointSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

TagResource

Associates tags with an OpenSearch Serverless resource. For more information, see Tagging Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "resourceArn": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource. The resource must be active (not in the DELETING state), and must be owned by the account ID included in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

tags

A list of tags (key-value pairs) to add to the resource. All tag keys in the request must be unique.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UntagResource

Removes a tag or set of tags from an OpenSearch Serverless resource. For more information, see Tagging Amazon OpenSearch Serverless collections.

Request Syntax

```
{
   "resourceArn": "string",
   "tagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource to remove tags from. The resource must be active (not in the `DELETING` state), and must be owned by the account ID included in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

tagKeys

The tag or set of tags to remove from the resource. All tag keys in the request must be unique.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateAccessPolicy

Updates an OpenSearch Serverless access policy. For more information, see Data access control for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "policy": "string",
   "policyVersion": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the policy. Typically used to store information about the permissions defined in the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

policy

The JSON policy document to use as the content for the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: No

policyVersion

The version of the policy being updated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: Yes

type

The type of policy.

Type: String

Valid Values: `data`

Required: Yes

Response Syntax

```
{
   "accessPolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessPolicyDetail

Details about the updated access policy.

Type: AccessPolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateAccountSettings

Update the OpenSearch Serverless settings for the current AWS account. For more information, see Managing capacity limits for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "capacityLimits": {
      "maxIndexingCapacityInOCU": number,
      "maxSearchCapacityInOCU": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

capacityLimits

The maximum capacity limits for all OpenSearch Serverless collections, in OpenSearch Compute Units (OCUs). These limits are used to scale your collections based on the current workload. For more information, see Managing capacity limits for Amazon OpenSearch Serverless.

Type: CapacityLimits object

Required: No

Response Syntax

```
{
   "accountSettingsDetail": {
      "capacityLimits": {
         "maxIndexingCapacityInOCU": number,
         "maxSearchCapacityInOCU": number
      }
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accountSettingsDetail

OpenSearch Serverless-related settings for the current AWS account.

Type: AccountSettingsDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateCollection

Updates an OpenSearch Serverless collection.

Request Syntax

```
{
   "clientToken": "string",
   "deletionProtection": "string",
   "description": "string",
   "id": "string",
   "vectorOptions": {
      "ServerlessVectorAcceleration": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

deletionProtection

Indicates whether to enable or disable deletion protection for the collection. When set to ENABLED, the collection cannot be deleted.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

description

A description of the collection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

id

The unique identifier of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

vectorOptions

Configuration options for vector search capabilities in the collection.

Type: VectorOptions object

Required: No

Response Syntax

```
{
   "updateCollectionDetail": {
      "arn": "string",
      "createdDate": number,
      "deletionProtection": "string",
      "description": "string",
      "id": "string",
      "lastModifiedDate": number,
      "name": "string",
      "status": "string",
```

```
      "type": "string",
      "vectorOptions": {
         "ServerlessVectorAcceleration": "string"
      }
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

updateCollectionDetail

Details about the updated collection.

Type: UpdateCollectionDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateCollectionGroup

Updates the description and capacity limits of a collection group.

Request Syntax

```
{
   "capacityLimits": {
      "maxIndexingCapacityInOCU": number,
      "maxSearchCapacityInOCU": number,
      "minIndexingCapacityInOCU": number,
      "minSearchCapacityInOCU": number
   },
   "clientToken": "string",
   "description": "string",
   "id": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

capacityLimits

Updated capacity limits for the collection group, in OpenSearch Compute Units (OCUs).

Type: CollectionGroupCapacityLimits object

Required: No

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A new description for the collection group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

id

The unique identifier of the collection group to update.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

Response Syntax

```
{
   "updateCollectionGroupDetail": {
      "arn": "string",
      "capacityLimits": {
         "maxIndexingCapacityInOCU": number,
         "maxSearchCapacityInOCU": number,
         "minIndexingCapacityInOCU": number,
         "minSearchCapacityInOCU": number
      },
      "createdDate": number,
      "description": "string",
      "generation": "string",
      "id": "string",
      "lastModifiedDate": number,
      "name": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

updateCollectionGroupDetail

Details about the updated collection group.

Type: UpdateCollectionGroupDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateIndex

Updates an existing index in an OpenSearch Serverless collection. This operation allows you to modify the index schema, including adding new fields or changing field mappings. You can also enable automatic semantic enrichment ingestion and search. For more information, see About automatic semantic enrichment.

Request Syntax

```
{
   "id": "string",
   "indexName": "string",
   "indexSchema": JSON value
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

id

The unique identifier of the collection containing the index to update.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: Yes

indexName

The name of the index to update.

Type: String

Required: Yes

indexSchema

The updated JSON schema definition for the index, including field mappings and settings.

Type: JSON value

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateLifecyclePolicy

Updates an OpenSearch Serverless access policy. For more information, see Updating data lifecycle policies.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "policy": "string",
   "policyVersion": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

policy

The JSON policy document to use as the content for the lifecycle policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: No

policyVersion

The version of the policy being updated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: Yes

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: Yes

Response Syntax

```
{
   "lifecyclePolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

lifecyclePolicyDetail

Details about the updated lifecycle policy.

Type: LifecyclePolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateSecurityConfig

Updates a security configuration for OpenSearch Serverless. For more information, see SAML authentication for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "configVersion": "string",
   "description": "string",
   "iamFederationOptions": {
      "groupAttribute": "string",
      "userAttribute": "string"
   },
   "iamIdentityCenterOptionsUpdates": {
      "groupAttribute": "string",
      "userAttribute": "string"
   },
   "id": "string",
   "samlOptions": {
      "groupAttribute": "string",
      "metadata": "string",
      "openSearchServerlessEntityId": "string",
      "sessionTimeout": number,
      "userAttribute": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

configVersion

The version of the security configuration to be updated. You can find the most recent version of a security configuration using the `GetSecurityPolicy` command.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: Yes

description

A description of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

iamFederationOptions

Describes IAM federation options in the form of a key-value map for updating an existing security configuration. Use this field to modify IAM federation settings for the security configuration.

Type: IamFederationConfigOptions object

Required: No

iamIdentityCenterOptionsUpdates

Describes IAM Identity Center options in the form of a key-value map.

Type: UpdateIamIdentityCenterConfigOptions object

Required: No

id

The security configuration identifier. For SAML the ID will be `saml/<accountId>/<idpProviderName>`. For example, `saml/123456789123/OKTADev`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

samlOptions

SAML options in in the form of a key-value map.

Type: SamlConfigOptions object

Required: No

Response Syntax

```
{
   "securityConfigDetail": {
      "configVersion": "string",
      "createdDate": number,
      "description": "string",
      "iamFederationOptions": {
         "groupAttribute": "string",
         "userAttribute": "string"
      },
      "iamIdentityCenterOptions": {
         "applicationArn": "string",
         "applicationDescription": "string",
         "applicationName": "string",
         "groupAttribute": "string",
         "instanceArn": "string",
         "userAttribute": "string"
      },
      "id": "string",
      "lastModifiedDate": number,
      "samlOptions": {
         "groupAttribute": "string",
         "metadata": "string",
         "openSearchServerlessEntityId": "string",
         "sessionTimeout": number,
         "userAttribute": "string"
      },
      "type": "string"
```

```
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

securityConfigDetail

Details about the updated security configuration.

Type: SecurityConfigDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateSecurityPolicy

Updates an OpenSearch Serverless security policy. For more information, see Network access for Amazon OpenSearch Serverless and Encryption at rest for Amazon OpenSearch Serverless.

Request Syntax

```
{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "policy": "string",
   "policyVersion": "string",
   "type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

description

A description of the policy. Typically used to store information about the permissions defined in the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

policy

The JSON policy document to use as the content for the new policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: No

policyVersion

The version of the policy being updated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: Yes

type

The type of access policy.

Type: String

Valid Values: `encryption | network`

Required: Yes

Response Syntax

```
{
   "securityPolicyDetail": {
      "createdDate": number,
      "description": "string",
      "lastModifiedDate": number,
      "name": "string",
      "policy": JSON value,
      "policyVersion": "string",
      "type": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

securityPolicyDetail

Details about the updated security policy.

Type: SecurityPolicyDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Thrown when accessing or deleting a resource that does not exist.

HTTP Status Code: 400

ServiceQuotaExceededException

Thrown when you attempt to create more resources than the service allows based on service quotas.

HTTP Status Code: 400

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateVpcEndpoint

Updates an OpenSearch Serverless-managed interface endpoint. For more information, see Access Amazon OpenSearch Serverless using an interface endpoint.

Request Syntax

```
{
   "addSecurityGroupIds": [ "string" ],
   "addSubnetIds": [ "string" ],
   "clientToken": "string",
   "id": "string",
   "removeSecurityGroupIds": [ "string" ],
   "removeSubnetIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addSecurityGroupIds

The unique identifiers of the security groups to add to the endpoint. Security groups define the ports, protocols, and sources for inbound traffic that you are authorizing into your endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+\-]+`

Required: No

addSubnetIds

The ID of one or more subnets to add to the endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `subnet-([0-9a-f]{8}|[0-9a-f]{17})`

Required: No

clientToken

Unique, case-sensitive identifier to ensure idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

id

The unique identifier of the interface endpoint to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: Yes

removeSecurityGroupIds

The unique identifiers of the security groups to remove from the endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+\-]+`

Required: No

removeSubnetIds

The unique identifiers of the subnets to remove from the endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `subnet-([0-9a-f]{8}|[0-9a-f]{17})`

Required: No

Response Syntax

```
{
   "UpdateVpcEndpointDetail": {
      "id": "string",
      "lastModifiedDate": number,
      "name": "string",
      "securityGroupIds": [ "string" ],
      "status": "string",
      "subnetIds": [ "string" ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UpdateVpcEndpointDetail

Details about the updated VPC endpoint.

Type: UpdateVpcEndpointDetail object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

When creating a resource, thrown when a resource with the same name already exists or is being created. When deleting a resource, thrown when the resource is not in the ACTIVE, FAILED, or UPDATE_FAILED state.

HTTP Status Code: 400

InternalServerException

Thrown when an error internal to the service occurs while processing a request.

HTTP Status Code: 500

ValidationException

Thrown when the HTTP request contains invalid input or is missing required input.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

Data Types

The OpenSearch Service Serverless API contains several data types that various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- AccessPolicyDetail
- AccessPolicyStats
- AccessPolicySummary
- AccountSettingsDetail
- CapacityDetails
- CapacityLimits
- CollectionDetail
- CollectionErrorDetail
- CollectionFilters
- CollectionGroupCapacityLimits
- CollectionGroupDetail
- CollectionGroupErrorDetail
- CollectionGroupSummary
- CollectionSummary
- CreateCollectionDetail
- CreateCollectionGroupDetail
- CreateIamIdentityCenterConfigOptions
- CreateVpcEndpointDetail
- CurrentCapacity
- DeleteCollectionDetail

- DeleteVpcEndpointDetail
- EffectiveLifecyclePolicyDetail
- EffectiveLifecyclePolicyErrorDetail
- EncryptionConfig
- FipsEndpoints
- IamFederationConfigOptions
- IamIdentityCenterConfigOptions
- LifecyclePolicyDetail
- LifecyclePolicyErrorDetail
- LifecyclePolicyIdentifier
- LifecyclePolicyResourceIdentifier
- LifecyclePolicyStats
- LifecyclePolicySummary
- SamlConfigOptions
- SecurityConfigDetail
- SecurityConfigStats
- SecurityConfigSummary
- SecurityPolicyDetail
- SecurityPolicyStats
- SecurityPolicySummary
- Tag
- UpdateCollectionDetail
- UpdateCollectionGroupDetail
- UpdateIamIdentityCenterConfigOptions
- UpdateVpcEndpointDetail
- VectorOptions
- VpcEndpointDetail
- VpcEndpointErrorDetail
- VpcEndpointFilters
- VpcEndpointSummary

AccessPolicyDetail

Details about an OpenSearch Serverless access policy.

Contents

createdDate

The date the policy was created.

Type: Long

Required: No

description

The description of the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

lastModifiedDate

The timestamp of when the policy was last modified.

Type: Long

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

policy

The JSON policy document without any whitespaces.

Type: JSON value

Required: No

policyVersion

The version of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

type

The type of access policy.

Type: String

Valid Values: `data`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessPolicyStats

Statistics for an OpenSearch Serverless access policy.

Contents

DataPolicyCount

The number of data access policies in the current account.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessPolicySummary

A summary of the data access policy.

Contents

createdDate

The Epoch time when the access policy was created.

Type: Long

Required: No

description

The description of the access policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

lastModifiedDate

The date and time when the collection was last modified.

Type: Long

Required: No

name

The name of the access policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

policyVersion

The version of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

type

The type of access policy. Currently, the only available type is `data`.

Type: String

Valid Values: `data`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccountSettingsDetail

OpenSearch Serverless-related information for the current account.

Contents

capacityLimits

The maximum capacity limits for all OpenSearch Serverless collections, in OpenSearch Compute Units (OCUs). These limits are used to scale your collections based on the current workload. For more information, see Managing capacity limits for Amazon OpenSearch Serverless.

Type: CapacityLimits object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CapacityDetails

Capacity details for an OpenSearch Serverless collection group, including the current capacity and autoscaling status.

Contents

autoscalingStatus

The current autoscaling status for the collection group.

Type: String

Valid Values: `ACTION_SCALING_UP | ACTION_SCALING_DOWN | NO_ACTION`

Required: No

capacityInOcu

The current capacity in OpenSearch Compute Units (OCUs).

Type: Float

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CapacityLimits

The maximum capacity limits for all OpenSearch Serverless collections, in OpenSearch Compute Units (OCUs). These limits are used to scale your collections based on the current workload. For more information, see Managing capacity limits for Amazon OpenSearch Serverless.

Contents

maxIndexingCapacityInOCU

The maximum indexing capacity for collections.

Type: Integer

Valid Range: Minimum value of 2.

Required: No

maxSearchCapacityInOCU

The maximum search capacity for collections.

Type: Integer

Valid Range: Minimum value of 2.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionDetail

Details about each OpenSearch Serverless collection, including the collection endpoint, the OpenSearch Dashboards endpoint, and FIPS-compliant endpoints for federal government workloads.

Contents

arn

The Amazon Resource Name (ARN) of the collection.

Type: String

Required: No

collectionEndpoint

Collection-specific endpoint used to submit index, search, and data upload requests to an OpenSearch Serverless collection.

Type: String

Required: No

collectionGroupName

The name of the collection group that contains this collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

createdDate

The Epoch time when the collection was created.

Type: Long

Required: No

dashboardEndpoint

Collection-specific endpoint used to access OpenSearch Dashboards.

Type: String

Required: No

deletionProtection

Indicates whether deletion protection is `ENABLED` or `DISABLED` for the collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

description

A description of the collection.

Type: String

Required: No

failureCode

A failure code associated with the request.

Type: String

Required: No

failureMessage

A message associated with the failure code.

Type: String

Required: No

fipsEndpoints

FIPS-compliant endpoints for the collection. These endpoints use FIPS 140-3 validated cryptographic modules and are required for federal government workloads that must comply with FedRAMP security standards.

Type: FipsEndpoints object

Required: No

id

A unique identifier for the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

kmsKeyArn

The ARN of the AWS KMS key used to encrypt the collection.

Type: String

Required: No

lastModifiedDate

The date and time when the collection was last modified.

Type: Long

Required: No

name

The name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

standbyReplicas

Details about an OpenSearch Serverless collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

status

The current status of the collection.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED | UPDATE_FAILED`

Required: No

type

The type of collection.

Type: String

Valid Values: `SEARCH | TIMESERIES | VECTORSEARCH`

Required: No

vectorOptions

Configuration options for vector search capabilities in the collection.

Type: VectorOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionErrorDetail

Error information for an OpenSearch Serverless request.

Contents

errorCode

The error code for the request. For example, `NOT_FOUND`.

Type: String

Required: No

errorMessage

A description of the error. For example, `The specified Collection is not found.`

Type: String

Required: No

id

If the request contains collection IDs, the response includes the IDs provided in the request.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

name

If the request contains collection names, the response includes the names provided in the request.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionFilters

A list of filter keys that you can use for LIST, UPDATE, and DELETE requests to OpenSearch Serverless collections.

Contents

collectionGroupName

The name of the collection group to filter by.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

name

The name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status of the collection.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED | UPDATE_FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionGroupCapacityLimits

Capacity limits for a collection group. These limits define the minimum and maximum OpenSearch Compute Units (OCUs) for indexing and search operations that can be used by collections in the group.

Contents

maxIndexingCapacityInOCU

The maximum indexing capacity for collections in the group.

Type: Float

Valid Range: Minimum value of 1.

Required: No

maxSearchCapacityInOCU

The maximum search capacity for collections in the group.

Type: Float

Valid Range: Minimum value of 1.

Required: No

minIndexingCapacityInOCU

The minimum indexing capacity for collections in the group.

Type: Float

Valid Range: Minimum value of 0.

Required: No

minSearchCapacityInOCU

The minimum search capacity for collections in the group.

Type: Float

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionGroupDetail

Details about a collection group.

Contents

arn

The Amazon Resource Name (ARN) of the collection group.

Type: String

Required: No

capacityLimits

The capacity limits for the collection group, in OpenSearch Compute Units (OCUs).

Type: CollectionGroupCapacityLimits object

Required: No

createdDate

The Epoch time when the collection group was created.

Type: Long

Required: No

currentCapacity

Current search and indexing capacity for the collection group.

Type: CurrentCapacity object

Required: No

description

The description of the collection group.

Type: String

Required: No

generation

The generation of Amazon OpenSearch Serverless for the collection group.

Type: String

Valid Values: `CLASSIC | NEXTGEN`

Required: No

id

The unique identifier of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

name

The name of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

numberOfCollections

The number of collections associated with the collection group.

Type: Integer

Required: No

standbyReplicas

Indicates whether standby replicas are used for the collection group.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

tags

A map of key-value pairs associated with the collection group.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionGroupErrorDetail

Error details for a collection group operation.

Contents

errorCode

The error code for the request. For example, `NOT_FOUND`.

Type: String

Required: No

errorMessage

A description of the error. For example, `The specified Collection Group is not found.`

Type: String

Required: No

id

If the request contains collection group IDs, the response includes the IDs provided in the request.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

name

If the request contains collection group names, the response includes the names provided in the request.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionGroupSummary

Summary information about a collection group.

Contents

arn

The Amazon Resource Name (ARN) of the collection group.

Type: String

Required: No

capacityLimits

Capacity limits for a collection group. These limits define the minimum and maximum OpenSearch Compute Units (OCUs) for indexing and search operations that can be used by collections in the group.

Type: CollectionGroupCapacityLimits object

Required: No

createdDate

The Epoch time when the collection group was created.

Type: Long

Required: No

generation

The generation of Amazon OpenSearch Serverless for the collection group.

Type: String

Valid Values: `CLASSIC | NEXTGEN`

Required: No

id

The unique identifier of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

name

The name of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

numberOfCollections

The number of collections within the collection group.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollectionSummary

Details about each OpenSearch Serverless collection.

Contents

arn

The Amazon Resource Name (ARN) of the collection.

Type: String

Required: No

collectionGroupName

The name of the collection group that contains this collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

id

The unique identifier of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

kmsKeyArn

The ARN of the AWS Key Management Service key used to encrypt the collection.

Type: String

Required: No

name

The name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status of the collection.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED | UPDATE_FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateCollectionDetail

Details about the created OpenSearch Serverless collection.

Contents

arn

The Amazon Resource Name (ARN) of the collection.

Type: String

Required: No

collectionGroupName

The name of the collection group that contains this collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

createdDate

The Epoch time when the collection was created.

Type: Long

Required: No

deletionProtection

Indicates whether deletion protection is `ENABLED` or `DISABLED` for the collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

description

A description of the collection.

Type: String

Required: No

id

The unique identifier of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the KMS key with which to encrypt the collection.

Type: String

Required: No

lastModifiedDate

The date and time when the collection was last modified.

Type: Long

Required: No

name

The name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

standbyReplicas

Creates details about an OpenSearch Serverless collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

status

The current status of the collection.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED | UPDATE_FAILED`

Required: No

type

The type of collection.

Type: String

Valid Values: `SEARCH | TIMESERIES | VECTORSEARCH`

Required: No

vectorOptions

Configuration options for vector search capabilities in the collection.

Type: VectorOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateCollectionGroupDetail

Details about the created collection group.

Contents

arn

The Amazon Resource Name (ARN) of the collection group.

Type: String

Required: No

capacityLimits

The capacity limits for the collection group, in OpenSearch Compute Units (OCUs).

Type: CollectionGroupCapacityLimits object

Required: No

createdDate

The Epoch time when the collection group was created.

Type: Long

Required: No

description

The description of the collection group.

Type: String

Required: No

generation

The generation of Amazon OpenSearch Serverless for the collection group.

Type: String

Valid Values: `CLASSIC | NEXTGEN`

Required: No

id

The unique identifier of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

name

The name of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

standbyReplicas

Indicates whether standby replicas are used for the collection group.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

tags

A map of key-value pairs associated with the collection group.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateIamIdentityCenterConfigOptions

Describes IAM Identity Center options for creating an OpenSearch Serverless security configuration in the form of a key-value map.

Contents

instanceArn

The ARN of the IAM Identity Center instance used to integrate with OpenSearch Serverless.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Pattern: `arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

groupAttribute

The group attribute for this IAM Identity Center integration. Defaults to `GroupId`.

Type: String

Valid Values: `GroupId | GroupName`

Required: No

userAttribute

The user attribute for this IAM Identity Center integration. Defaults to `UserId`.

Type: String

Valid Values: `UserId | UserName | Email`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CreateVpcEndpointDetail

Creation details for an OpenSearch Serverless-managed interface endpoint. For more information, see Access Amazon OpenSearch Serverless using an interface endpoint.

Contents

id

The unique identifier of the endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: No

name

The name of the endpoint.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status in the endpoint creation process.

Type: String

Valid Values: `PENDING | DELETING | ACTIVE | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CurrentCapacity

Current search and indexing capacity for an OpenSearch Serverless collection group. Measured in OpenSearch Compute Units (OCUs).

Contents

indexing

The indexing capacity for the collection group.

Type: CapacityDetails object

Required: No

search

The search capacity for the collection group.

Type: CapacityDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DeleteCollectionDetail

Details about a deleted OpenSearch Serverless collection.

Contents

deletionProtection

Indicates whether deletion protection is `ENABLED` or `DISABLED` for the collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

id

The unique identifier of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

name

The name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status of the collection.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED | UPDATE_FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DeleteVpcEndpointDetail

Deletion details for an OpenSearch Serverless-managed interface endpoint.

Contents

id

The unique identifier of the endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: No

name

The name of the endpoint.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status of the endpoint deletion process.

Type: String

Valid Values: `PENDING | DELETING | ACTIVE | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EffectiveLifecyclePolicyDetail

Error information for an OpenSearch Serverless request.

Contents

noMinRetentionPeriod

The minimum number of index retention days set. That is an optional param that will return as `true` if the minimum number of days or hours is not set to a index resource.

Type: Boolean

Required: No

policyName

The name of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

resource

The name of the OpenSearch Serverless index resource.

Type: String

Required: No

resourceType

The type of OpenSearch Serverless resource. Currently, the only supported resource is `index`.

Type: String

Valid Values: `index`

Required: No

retentionPeriod

The minimum number of index retention in days or hours. This is an optional parameter that will return only if it's set.

Type: String

Required: No

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EffectiveLifecyclePolicyErrorDetail

Error information for an OpenSearch Serverless request.

Contents

errorCode

The error code for the request.

Type: String

Required: No

errorMessage

A description of the error. For example, `The specified Index resource is not found`.

Type: String

Required: No

resource

The name of OpenSearch Serverless index resource.

Type: String

Required: No

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EncryptionConfig

Encryption settings for a collection.

Contents

aWSOwnedKey

Indicates whether to use an AWS-owned key for encryption.

Type: Boolean

Required: No

kmsKeyArn

The ARN of the AWS Key Management Service key used to encrypt the collection.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 100.

Pattern: `arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):kms:[a-z0-9-]+:[0-9]{12}:key/[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FipsEndpoints

FIPS-compliant endpoint URLs for an OpenSearch Serverless collection. These endpoints ensure all data transmission uses FIPS 140-3 validated cryptographic implementations, meeting federal security requirements for government workloads.

Contents

collectionEndpoint

FIPS-compliant collection endpoint used to submit index, search, and data upload requests to an OpenSearch Serverless collection. This endpoint uses FIPS 140-3 validated cryptography and is required for federal government workloads.

Type: String

Required: No

dashboardEndpoint

FIPS-compliant endpoint used to access OpenSearch Dashboards. This endpoint uses FIPS 140-3 validated cryptography and is required for federal government workloads that need dashboard visualization capabilities.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IamFederationConfigOptions

Describes IAM federation options for an OpenSearch Serverless security configuration in the form of a key-value map. These options define how OpenSearch Serverless integrates with external identity providers using federation.

Contents

groupAttribute

The group attribute for this IAM federation integration. This attribute is used to map identity provider groups to OpenSearch Serverless permissions.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z][A-Za-z0-9_.:/=+\-@]*`

Required: No

userAttribute

The user attribute for this IAM federation integration. This attribute is used to identify users in the federated authentication process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z][A-Za-z0-9_.:/=+\-@]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

IamIdentityCenterConfigOptions

Describes IAM Identity Center options for an OpenSearch Serverless security configuration in the form of a key-value map.

Contents

applicationArn

The ARN of the IAM Identity Center application used to integrate with OpenSearch Serverless.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Pattern: `arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: No

applicationDescription

The description of the IAM Identity Center application used to integrate with OpenSearch Serverless.

Type: String

Required: No

applicationName

The name of the IAM Identity Center application used to integrate with OpenSearch Serverless.

Type: String

Required: No

groupAttribute

The group attribute for this IAM Identity Center integration. Defaults to `GroupId`.

Type: String

Valid Values: `GroupId | GroupName`

Required: No

instanceArn

The ARN of the IAM Identity Center instance used to integrate with OpenSearch Serverless.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Pattern: `arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: No

userAttribute

The user attribute for this IAM Identity Center integration. Defaults to `UserId`

Type: String

Valid Values: `UserId | UserName | Email`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LifecyclePolicyDetail

Details about an OpenSearch Serverless lifecycle policy.

Contents

createdDate

The date the lifecycle policy was created.

Type: Long

Required: No

description

The description of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

lastModifiedDate

The timestamp of when the lifecycle policy was last modified.

Type: Long

Required: No

name

The name of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

policy

The JSON policy document without any whitespaces.

Type: JSON value

Required: No

policyVersion

The version of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LifecyclePolicyErrorDetail

Error information for an OpenSearch Serverless request.

Contents

errorCode

The error code for the request. For example, `NOT_FOUND`.

Type: String

Required: No

errorMessage

A description of the error. For example, `The specified Lifecycle Policy is not found.`

Type: String

Required: No

name

The name of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LifecyclePolicyIdentifier

The unique identifiers of policy types and policy names.

Contents

name

The name of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: Yes

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LifecyclePolicyResourceIdentifier

The unique identifiers of policy types and resource names.

Contents

resource

The name of the OpenSearch Serverless ilndex resource.

Type: String

Pattern: `index/[a-z][a-z0-9-]{3,63}/([a-z;0-9&$%][+.~=\-_a-z;0-9&$%]*)`

Required: Yes

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LifecyclePolicyStats

Statistics for an OpenSearch Serverless lifecycle policy.

Contents

RetentionPolicyCount

The number of retention lifecycle policies in the current account.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LifecyclePolicySummary

A summary of the lifecycle policy.

Contents

createdDate

The Epoch time when the lifecycle policy was created.

Type: Long

Required: No

description

The description of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

lastModifiedDate

The date and time when the lifecycle policy was last modified.

Type: Long

Required: No

name

The name of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

policyVersion

The version of the lifecycle policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

type

The type of lifecycle policy.

Type: String

Valid Values: `retention`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SamlConfigOptions

Describes SAML options for an OpenSearch Serverless security configuration in the form of a key-value map.

Contents

metadata

The XML IdP metadata file generated from your identity provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 51200.

Pattern: `.*[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+.*`

Required: Yes

groupAttribute

The group attribute for this SAML integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `.*[\w+=,.@-]+.*`

Required: No

openSearchServerlessEntityId

Custom entity ID attribute to override the default entity ID for this SAML integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `aws:opensearch:[0-9]{12}:*.*`

Required: No

sessionTimeout

The session timeout, in minutes. Default is 60 minutes (12 hours).

Type: Integer

Valid Range: Minimum value of 5. Maximum value of 720.

Required: No

userAttribute

A user attribute for this SAML integration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `.*[\w+=,.@-]+.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityConfigDetail

Details about a security configuration for OpenSearch Serverless.

Contents

configVersion

The version of the security configuration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

createdDate

The date the configuration was created.

Type: Long

Required: No

description

The description of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

iamFederationOptions

Describes IAM federation options in the form of a key-value map. Contains configuration details about how OpenSearch Serverless integrates with external identity providers through federation.

Type: IamFederationConfigOptions object

Required: No

iamIdentityCenterOptions

Describes IAM Identity Center options in the form of a key-value map.

Type: IamIdentityCenterConfigOptions object

Required: No

id

The unique identifier of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

lastModifiedDate

The timestamp of when the configuration was last modified.

Type: Long

Required: No

samlOptions

SAML options for the security configuration in the form of a key-value map.

Type: SamlConfigOptions object

Required: No

type

The type of security configuration.

Type: String

Valid Values: `saml | iamidentitycenter | iamfederation`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityConfigStats

Statistics for an OpenSearch Serverless security configuration.

Contents

SamlConfigCount

The number of security configurations in the current account.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityConfigSummary

A summary of a security configuration for OpenSearch Serverless.

Contents

configVersion

The version of the security configuration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

createdDate

The Epoch time when the security configuration was created.

Type: Long

Required: No

description

The description of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

id

The unique identifier of the security configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

lastModifiedDate

The timestamp of when the configuration was last modified.

Type: Long

Required: No

type

The type of security configuration.

Type: String

Valid Values: `saml | iamidentitycenter | iamfederation`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityPolicyDetail

Details about an OpenSearch Serverless security policy.

Contents

createdDate

The date the policy was created.

Type: Long

Required: No

description

The description of the security policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

lastModifiedDate

The timestamp of when the policy was last modified.

Type: Long

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

policy

The JSON policy document without any whitespaces.

Type: JSON value

Required: No

policyVersion

The version of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

type

The type of security policy.

Type: String

Valid Values: `encryption | network`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityPolicyStats

Statistics for an OpenSearch Serverless security policy.

Contents

EncryptionPolicyCount

The number of encryption policies in the current account.

Type: Long

Required: No

NetworkPolicyCount

The number of network policies in the current account.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityPolicySummary

A summary of a security policy for OpenSearch Serverless.

Contents

createdDate

The date the policy was created.

Type: Long

Required: No

description

The description of the security policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

lastModifiedDate

The timestamp of when the policy was last modified.

Type: Long

Required: No

name

The name of the policy.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

policyVersion

The version of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 36.

Pattern: `([0-9a-zA-Z+/]{4})*(([0-9a-zA-Z+/]{2}==)|([0-9a-zA-Z+/]{3}=))?`

Required: No

type

The type of security policy.

Type: String

Valid Values: `encryption | network`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Tag

A map of key-value pairs associated to an OpenSearch Serverless resource.

Contents

key

The key to use in the tag.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

value

The value of the tag.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateCollectionDetail

Details about an updated OpenSearch Serverless collection.

Contents

arn

The Amazon Resource Name (ARN) of the collection.

Type: String

Required: No

createdDate

The date and time when the collection was created.

Type: Long

Required: No

deletionProtection

Indicates whether deletion protection is `ENABLED` or `DISABLED` for the collection.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

description

The description of the collection.

Type: String

Required: No

id

The unique identifier of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

lastModifiedDate

The date and time when the collection was last modified.

Type: Long

Required: No

name

The name of the collection.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status of the collection.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED | UPDATE_FAILED`

Required: No

type

The collection type.

Type: String

Valid Values: `SEARCH | TIMESERIES | VECTORSEARCH`

Required: No

vectorOptions

Configuration options for vector search capabilities in the collection.

Type: VectorOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateCollectionGroupDetail

Details about the updated collection group.

Contents

arn

The Amazon Resource Name (ARN) of the collection group.

Type: String

Required: No

capacityLimits

The capacity limits for the collection group, in OpenSearch Compute Units (OCUs).

Type: CollectionGroupCapacityLimits object

Required: No

createdDate

The Epoch time when the collection group was created.

Type: Long

Required: No

description

The description of the collection group.

Type: String

Required: No

generation

The generation of Amazon OpenSearch Serverless for the collection group.

Type: String

Valid Values: `CLASSIC | NEXTGEN`

Required: No

id

The unique identifier of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `[a-z0-9]{3,40}`

Required: No

lastModifiedDate

The date and time when the collection group was last modified.

Type: Long

Required: No

name

The name of the collection group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateIamIdentityCenterConfigOptions

Describes IAM Identity Center options for updating an OpenSearch Serverless security configuration in the form of a key-value map.

Contents

groupAttribute

The group attribute for this IAM Identity Center integration. Defaults to `GroupId`.

Type: String

Valid Values: `GroupId | GroupName`

Required: No

userAttribute

The user attribute for this IAM Identity Center integration. Defaults to `UserId`.

Type: String

Valid Values: `UserId | UserName | Email`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateVpcEndpointDetail

Update details for an OpenSearch Serverless-managed interface endpoint.

Contents

id

The unique identifier of the endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: No

lastModifiedDate

The timestamp of when the endpoint was last modified.

Type: Long

Required: No

name

The name of the endpoint.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

securityGroupIds

The unique identifiers of the security groups that define the ports, protocols, and sources for inbound traffic that you are authorizing into your endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+\-]+`

Required: No

status

The current status of the endpoint update process.

Type: String

Valid Values: `PENDING | DELETING | ACTIVE | FAILED`

Required: No

subnetIds

The ID of the subnets from which you access OpenSearch Serverless.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `subnet-([0-9a-f]{8}|[0-9a-f]{17})`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VectorOptions

Configuration options for vector search capabilities in an OpenSearch Serverless collection.

Contents

ServerlessVectorAcceleration

Specifies whether serverless vector acceleration is enabled for the collection.

Type: String

Valid Values: `ENABLED | DISABLED | ALLOWED`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcEndpointDetail

Details about an OpenSearch Serverless-managed interface endpoint.

Contents

createdDate

The date the endpoint was created.

Type: Long

Required: No

failureCode

A failure code associated with the request.

Type: String

Required: No

failureMessage

A message associated with the failure code.

Type: String

Required: No

id

The unique identifier of the endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: No

name

The name of the endpoint.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

securityGroupIds

The unique identifiers of the security groups that define the ports, protocols, and sources for inbound traffic that you are authorizing into your endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+\-]+`

Required: No

status

The current status of the endpoint.

Type: String

Valid Values: `PENDING | DELETING | ACTIVE | FAILED`

Required: No

subnetIds

The ID of the subnets from which you access OpenSearch Serverless.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `subnet-([0-9a-f]{8}|[0-9a-f]{17})`

Required: No

vpcId

The ID of the VPC from which you access OpenSearch Serverless.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpc-[0-9a-z]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcEndpointErrorDetail

Error information for a failed `BatchGetVpcEndpoint` request.

Contents

errorCode

The error code for the failed request.

Type: String

Required: No

errorMessage

An error message describing the reason for the failure.

Type: String

Required: No

id

The unique identifier of the VPC endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcEndpointFilters

Filter the results of a `ListVpcEndpoints` request.

Contents

status

The current status of the endpoint.

Type: String

Valid Values: `PENDING | DELETING | ACTIVE | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcEndpointSummary

The VPC endpoint object.

Contents

id

The unique identifier of the endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `vpce-[0-9a-z]*`

Required: No

name

The name of the endpoint.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 32.

Pattern: `[a-z][a-z0-9-]+`

Required: No

status

The current status of the endpoint.

Type: String

Valid Values: `PENDING | DELETING | ACTIVE | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400